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Mark: Apartment No. 8, 1 Luffberry Avenue, Norwalk, CT 06851 (US).

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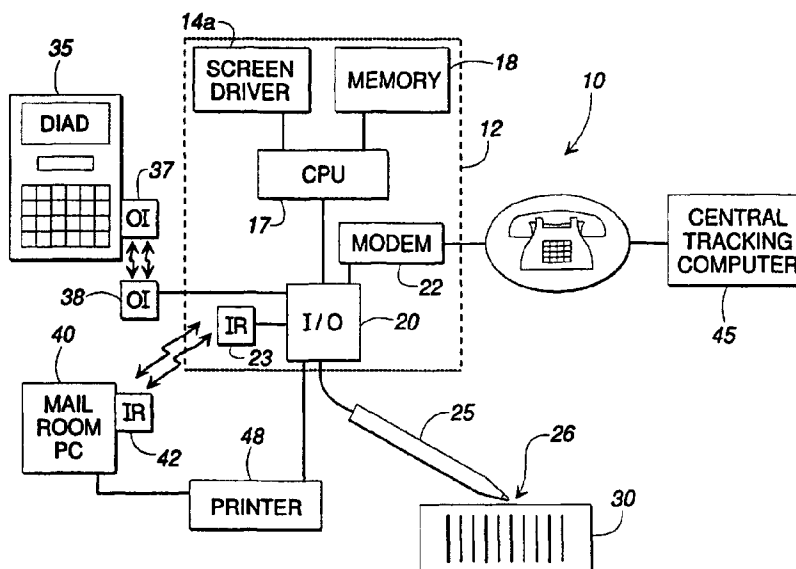
(71) **Applicant:** UNITED PARCEL SERVICE OF AMERICA, INC. [US/US]; 55 Glenlake Parkway, N.E., Atlanta, GA 30328 (US).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) **Title:** MULTI-STAGE PARCEL TRACKING SYSTEM



(57) **Abstract:** A delivery tracking system capable of tracking parcels during an internal stage of delivery within an organization after receipt of the parcel from a parcel delivery service. The system utilizes an intelligent, hand-held, portable data entry and data processing device to obtain signatures of recipients and scan codes printed on parcel labels, and to respond to tracking inquiries prior to transferring collected information to a different computer. Data is entered on a touch-sensitive screen of a personal digital assistant using the tip of a wand-type bar code scanner.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 95/13203

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 G06F17/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 G06F G06K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DOCUMENT DELIVERY WORLD, vol. 9, no. 3, April 1993, ISSN 1067-0815, US, pages 30-31, XP000560076 H. TOWLE: "On the fast track with TotalTrack: UPS deploys mobile data service" see page 30, middle column, last paragraph ---	1
X	EP,A,0 565 290 (IBM) 13 October 1993 see column 2, line 41 - line 55 see column 5, line 47 - column 6, line 28 ---	1-4
X	EP,A,0 573 018 (SYMBOL TECHNOLOGIES) 8 December 1993 see column 7, line 24 - line 46 see column 17, line 27 - column 18, line 24 --- -/--	6,7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

10 July 1996

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 95/13203

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>PROCEEDINGS OF THE INTERNATIONAL CONGRESS ON TRANSPORTATION ELECTRONICS, October 1992, SOCIETY OF AUTOMOTIVE ENGINEERS, INC. WARRENDALE, US, pages 371-382, XP000560489 H. KAWATA: "Information technology of commercial vehicles in the Japanese parcel service business" see page 375, left-hand column, paragraph 2 - right-hand column, last paragraph; figures 10,18</p> <p style="text-align: center;">---</p>	1-4
Y	<p>WO,A,94 02908 (TELXON) 3 February 1994 see page 4, line 9 - page 5, line 18</p> <p style="text-align: center;">---</p>	1-4
A	<p>WO,A,89 04016 (ZENGRANGE) 5 May 1989 see claims</p> <p style="text-align: center;">---</p>	1-5
A	<p>US,A,5 278 399 (SANO) 11 January 1994 see column 3, line 57 - column 5, line 19</p> <p style="text-align: center;">-----</p>	6,7

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 95/ 13203

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. Claims 1-5: Electronic parcel tracking system.
2. Claims 6,7: Method and apparatus for touch sensitive and barcode data entry.

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 95/13203

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A-0565290	13-10-93	US-A- 5313051 CA-A- 2090712 JP-A- 6028380	17-05-94 07-10-93 04-02-94
EP-A-0573018	08-12-93	CA-A- 2097360 JP-A- 6096255 US-A- 5369262 US-A- 5508504	04-12-93 08-04-94 29-11-94 16-04-96
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US-A-5278399	11-01-94	JP-A- 2253489	12-10-90